

Specifications

Background of the Invention

1. Field of the Invention

This invention is a safety cartridge which permits the firearm owner to quickly use his loaded firearm for self defense or police action but prevents discharge of his firearm by unauthorized persons. The safety cartridge is quickly ejected (pistol, rifle, or shotgun) or moved out-of-line (revolver) by the firearm owner before defensive gun use. A criminal or child attempting to fire the gun, however, initiates the safety cartridge which jams the gun rendering the gun completely inoperable. Removing the fired safety cartridge requires significant time and skill of the gun owner. The safety cartridge does not damage the firearm.

2. Description of Related Art

Firearms are used for self defense and police actions to prevent crimes as well as for sport such as hunting and target practice. A responsible hunter or target shooter keeps his firearms unloaded in a locked cabinet with ammunition stored separately in a second locked cabinet. Self defense or police actions, however, requires immediate access which implies a loaded firearm near by. For example, a loaded pistol on the night stand is 100% useful for self defense and 0% safe. Conversely, the same pistol locked in a cabinet with no ammunition available is 0% useful for self defense but 100% safe. A loaded firearm with a safety cartridge in the gun chamber is nearly 100% useful for self defense and nearly 100% safe. The reality is that many firearms for self defense and police action are kept in a loaded and easily available condition. There have been many studies conducted which tend to justify keeping a loaded weapon available.

The Lott - Mustard study based on FBI crime data from 1977-1992 showed that violent crime rate goes down by approximately 25% within 6 years after adoption of Right To Carry Laws (from just under 400 to less than 300 incidents per 100,000 population). Thirty-seven (37) states in the US now have Right To Carry Laws (up from only 9 states in 1986). Right To Carry is:

- more cost effective than adding more police or prisons
- presents no risk to law enforcement (law abiding citizens are not the problem)
- benefits women, the aged, the handicapped, as well as able bodied men

A review of "Guns and Self Defense" by Gary Kleek, PhD, copyright 1997 shows that there are at least 2.55 million incidents of defensive gun use per year in the US (probably much more because adolescents were not counted). Defensive gun uses are 3 to 4 times more common than crimes committed with guns. Defensive gun use significantly lowers victim injury (17%)

vs. 33%) and property loss (31% vs. 65%). Civilian gun ownership and defensive gun use deters violent crime. Police can only investigate a crime after it has occurred police can't/don't prevent crime. Only 3% of defensive gun use involves anyone being wounded and most of these wounds (85%) are nonfatal. Most defensive gun use involves just a warning ("I've got a gun") or firing a warning shot. A majority of gun owners (62%) plan to use their gun for protection as well as for sport and half of these owners keep at least one gun loaded and ready (mainly in the bedroom). Keeping a loaded firearm seems justifiable in America based on the statistic that 83% of Americans will, sometime during their life, be a victim of a violent crime. The mobster, Sammy (The Bull) Gravano, once called gun control activists "the best friends a crook ever had 'cause guys like me will always get a gun."

The US Constitution Second Amendment and the current position of the United States Justice Department (John Ashcroft under President George W. Bush) gives individuals the right to own a gun and 74% of the states (37 states) have Right To Carry Laws. Most gun owners have a gun for self defense as well as for sport and 31% of all gun owners keep a gun loaded and ready. The police always keep their guns loaded and ready. Of approximately 600,000 police officers in the US, an average of 68 are killed each year and 8 of those (12%) with their own weapon (most taken from holster or squad car). A loaded firearm with a safety cartridge in the chamber is very effective for self defense and is nearly 100% safe the 8 police officers killed with their own firearm would probably be alive today if they used the safety cartridge in the chamber of their loaded gun. The safety cartridge would also prevent gun owners from being killed with their own weapon.

There are more firearms privately owned today than at any time in US history, and the number continues to rise. Data recently released by the National Center for Health Statistics show that there were fewer firearm-related deaths in the US in 1999 than any year since 1971, with drops in each category of death - suicide, murder, and accident. Fatal firearm accidents have steadily declined from over 3100 in 1930 to only 824 in 1999 even though our population more than doubled from 123 million (1930) to almost 273 million (1999). Fatal firearm accidents for children accounted for 88 of the 824 total in 1999 a decrease of 84% since 1975. The significant reductions cited above result from people being more careful due to publicity on the misuse of firearms, better safety training, and better gun design. Introduction of my safety cartridge would reduce accidental firearm deaths further specially among children who find a loaded gun in their house because pulling the trigger would cause the gun to jam. A gun owner who chooses to use the safety cartridge in his loaded weapon must train periodically so he doesn't attempt to defend himself using his weapon with it in the chamber causing his gun to jam. Training should always be done with the gun selected for self defense and include practice on a range.

A patent search was conducted on the Internet using the US Patent and Trademark Office web cite, www.uspto.gov. Patents issued between 1790 and 1976 were searched using current US classifications (CCL) for firearm safety and locking mechanisms. Patents issued after 1976 (which accounts for 40% of all patents issued in the US as of mid 2003) were searched using key words and combinations of words existing in the patent text and title. These methods produced nearly 1400 "hits". Some of these "hit" groupings contained the same patent number. References cited in patents similar to my safety cartridge were also reviewed. More than 850 patents ended up being looked at in my search. Most were not related to my safety cartridge and involved lock boxes, display rack locks, trigger locks, holster locks, firing pin locks, hammer

locks, electronic devices activated by magnetic ring, devices requiring gun modifications, etc. The resulting search produced 15 patents dated from 1863 to 2004 as on page 1 of this patent. These 15 patents are compared to my Aske safety cartridge which is called the "JamIt Safety Cartridge" in TABLE 1.

Referring now to TABLE 1, the first patent on a safety device occupying the chamber of a gun was issued during the Civil War in 1863 to Bonzano (37,946). It was a chamber plug inserted down the tube of a muzzle loaded cannon to prevent unauthorized loading and firing of the cannon. Comparisons of the 15 patents to my "JamIt" safety cartridge can easily be made by examining TABLE 1. Many of the devices take to much time to use and thus ineffective in self defense situations (see column 7 of TABLE 1). These include Achee et al. (6,408,556), Scott (6,237,272), Samuels (6,041,536), Ross (5,950,344), Briley et al. (5,475,994), Honey et al. (5,171,924), Mikus (5,052,142), Thurber (4,783,924), and Bonzano (37,946) devices. JamIt can be used to provide safety in loaded pistols, revolvers, rifles, and shotguns (see column 5 and 6 of TABLE 1) while most of the other patented devices are generally effective for handguns or a specific handgun (pistol or revolver but not both). Only Worley's (6,698,126B2), Scott's (6,237,272), Stuart's (5,394,635 and 5,347,739), and Horton's (5,010,674) safety cartridges have the potential to be used in loaded rifles and shotguns. Scott's device is a simple plug fitted with o-rings and is not effective for revolvers. The purpose of Scott's device is to prevent a customer in a store (where a gun is on display) from inserting a live round of ammunition into a gun, i.e., it is very difficult to remove Scott's plug and therefor not effective for loaded firearms to be used for self defense. Horton's device appears to be limited to revolver use only.

The 7th, 8th, and 9th columns of TABLE 1 show that JamIt along with Worley (6,698,126B2), Trois et al. (6,418,654), Stuart (5,394,635 and 5,347,739), Horton (5,010,674) and Giles (3,208,176) devices are quick to operate in a self defense situation, jam the gun if an unauthorized person seizes and attempts to fire the gun (pulls trigger) and once the gun is jammed, its difficult to remove the obstruction (barrel tool required). These six safety cartridges basically meet the self defense safety objectives in different ways. The Trois device is rated only "Fairly Quick" (column 7 of TABLE 1), i.e., the gun owner must pull the device from the barrel and then chamber a live round of ammunition (pistol only, not double action revolver). Also the Removal after Activation (see column 9 of TABLE 1) is rated "easy-Perhaps too easy. Child could pull out and fire a revolver." If the Trois device was placed in the wrong gun (say a pistol with a long barrel), then live ammunition could be chambered and an attempt to fire the pistol would cause the barrel to blow up! Horton's and Giles devices appear to be limited to revolver use only. Most military and police officers use pistols rather than revolvers. The other three devices JamIt, Worley and Stuart's safety cartridge use live primers (see column 14 of TABLE 1) to activate the jamming function and can only be used once as shown in column 10. These safety cartridges are activated by firing pin impact (primer initiation) causing the handgun (revolver or pistol) to jam. These safety cartridges can be readily and quickly removed or by-passed by the gun owner who is familiar with his weapon and the purpose of the safety cartridges.

There are significant differences between my Aske safety cartridge and the Worley and Stuart safety cartridges. When the primer is initiated by the firing pin, my safety cartridge length expands several inches [from 1.275" to 3.5" for .45 Auto expanded lengths of other caliber's are 3.0" (.380 Auto), 2.2" (.38 Special / .357 Magnum), 2.6" (9mm Luger) and 3.5" (.32

Auto)]. The Worley cartridge length does not increase at all it expands in diameter resulting in a press fit in the gun chamber. The Stuart cartridge length expands only about 0.25" with the projectile engraving the rifling in the barrel (press fit, also). Press fits are not a reliable means of jamming a firearm a strong criminal or child may be able to overcome the press fit force by pulling on the slide of an automatic pistol and eject the safety cartridge and chamber a live round of ammunition! My safety cartridge slug is smaller in diameter than the barrel inside diameter it moves freely in the barrel resulting in no obstructions in the barrel. Barrel obstructions are dangerous! Worley's safety bullet will not chamber properly in most automatic pistols (examples: Colt Lightweight Commander .45 Auto, Beretta Mod. 92FS 9mm, KEL-TEC P3AT .380 Auto, KEL-TEC P-32 .32 Auto) because of the blunt shape of the bullet nose. A blunt nose shape is required in the Worley device which depends on the bullet diameter expansion into the firing chamber resulting in a press fit. The bullet shape is more streamlined in the Aske and Stuart devices which allows chambering of an unfired first, second, or even third safety cartridge to further improve gun safety if desired by the gun owner.

Aske's safety cartridge is configured to jam all loaded handguns (both pistols and revolvers) and loaded rifles and shotguns. Worley's safety bullet effectively jams loaded pistols. It can be configured to jam certain revolvers by increasing the Metal Ram nail length (looks like a roofing nail) so that it extends beyond the plastic Expander to an overall length beyond the revolver chamber into the barrel thereby preventing revolver cylinder (chamber) rotation. This increase in length is very limited, i.e., a Worley safety bullet for a .38 Special revolver could not be used to jam a .357 Magnum revolver because the rotating cylinder (chamber) is more than 0.04" longer. This same problem exists for other handguns where the same cartridge is used in an automatic pistol and a revolver (example: .45 ACP cartridge). Worley or Stuart safety cartridge use in rifles or shotguns is not recommended because the unauthorized gun user may be able to overcome the unpredictable press fit force as indicated in column 6 in TABLE 1. The unauthorized gun user has more leverage and can exert a higher extraction force with a rifle or shotgun than a pistol.

In Stuart's most recent patent (5,394,635) for automatic Colt pistols, the long projectile is propelled into and wedged in the barrel by the resultant primer and gun powder gases when initiated by an unauthorized person pulling the trigger. The short cartridge case may be ejected by the unauthorized person by pulling on the slide action leaving the projectile stuck in the barrel. The wedged projectile prevents further live ammunition from being chambered causing the Colt pistol to be jammed. A safety problem could occur if the projectile is propelled too far down the barrel allowing a live round to be chambered and fired with the obstruction (projectile) in the barrel. This can never happen with the JamIt safety cartridge where the slug is firmly connected to the cartridge case with the compression (extension) spring.

Aske's safety cartridge is more producible than either the Stuart or Worley device. All three devices use standard primers. Stuart's cartridge requires a custom made cartridge case and projectile. Worley's cartridge requires a custom made Metal Ram and Expander. Both Stuart and Worley devices are difficult to assemble. Aske's safety cartridge uses a standard cartridge case, simple undersized slug and simple spring and can be assembled in less than 20 hours per thousand without special tooling and fixtures.

Some people may prefer to defend themselves in their home with a rifle or shotgun. JamIt can easily be adapted for use with these weapons. A small propellant charge in addition to the primer may be required for the longer extension spring. A longer spring will result in a longer fired safety cartridge (maybe 10 to 20 inches long) after JamIt initiation assuring that an unauthorized person can't unjam the longer firearm by removing JamIt. The projectile press fit force may not be sufficient using the Stuart safety cartridge as indicated in footnote (1) in TABLE 1. The unauthorized person could generate significantly more extraction force in a bolt, lever, or pump action rifle or shotgun than in a pistol slide action. The length of the fired Stuart safety cartridge is limited to only about 1.5 times the unfired Stuart safety cartridge by the basic concept design. Fired JamIt safety cartridge length is not limited.

In summary, there are significant differences between the primer activated Aske (JamIt), Worley and Stuart safety cartridges as indicated in TABLE 1 and in the discussion above; namely:

- JamIt can be used to provide safety to pistols, revolvers, rifles and shotguns.
- JamIt contains an extension spring which is transformed into a very long compression spring when initiated.
- JamIt's slug moves freely in the barrel and is not a press fit like the Worley or Stuart devices.
- The gun owner is given the option of installing an o-ring to the Jamlt slug which provides for a repeatable press fit force of the slug in the barrel making it much more difficult to remove if the Jamlt is fired by a child playing with the owners gun, i.e., the o-ring provides more safety and would probably require a gunsmith to remove the fired Jamlt safety cartridge!
- JamIt uses more low cost standard and common components and is easier to assemble.
- The fired JamIt safety cartridge length can be increased to 5", 10", or longer to assure rifle or shotgun jamming action.

 The fired length of the Worley cartridge is unchanged and extends only about 0.25" for the Stuart cartridge.
- No dangerous barrel obstructions are possible with the Aske (JamIt) safety cartridge.
- Aske and Worley cartridges are "flagged" and easily identified by the gun owner as a safety cartridge the Stuart cartridge is not flagged.
- Aske and Stuart cartridges will chamber properly from magazine to chamber in automatic pistols. The Worley cartridge
 will not chamber properly because of its blunt nose shape.

TABLE 1 - How Aske Safety Cartridge Differs from other Inventions Identified in the Patent Search

Date Pistol & Riffe & Organ for 2004.7 Removal after an make a formation of gam for a contact and and after a contact and and after a contact and after an make it more an it has fined an it make it more an it has fined an it make it more an it has a required-tiplet carridge of make it is the fined and it has a required-tiplet carridge of make it is the fined and it has a required-tiplet carridge of make it is the make it is make it is make an make an make it is make an it has fined and it is make it is make an make and it is sequenced. The make it is make an make it is make an it is make an make an it is make an		7	m	4	S	6 Loaded	7 Owner 1190	•	6	10	11	12 13 Press		14
37004 Worley Pistol-Yee (3)7 (1) Quick-Eject cartridge Pulling trigger jams gun Difficult-Barrel tool	٠		Date Issued 2004?	Inventor(s) Aske		Rifle & Shotgun . Both	of gun for Self Defense Quick-Eject cartridge (pistol) or rotate cylinder (revolver)	Unauthorized use of gun Pulling trigger jams gun		Use after <u>Activation?</u> No	Flag? S		Spring? Extension becoming compression spring	<u>Primer?</u> Yes
Handgam safety 72002 Trois & Part (a) and the control of the control	6B.	2 Safety bullet	3/2004	Worley	Pistol-Yes (3. Revolver-?)? (I)	Quick-Eject cartridge (pistol) or rotate	Pulling trigger jams gun	Difficult-Barrel tool required+Eject cartridge	°Z	Yes	Yes No		Yes
Breech block 67002 Achee & Both No Slow-Barrel icol finamusately Breech block 572001 Scott Pistol only Slow Slow-Barrel icol Chamber plugged- Difficult-Barrel icol selection Scott Pistol only Slow Slow-Barrel icol Chamber plugged- Difficult-Barrel icol Pistol only Slow Slow-Barrel icol Chamber plugged- Difficult-Barrel icol Chamber chamber chamber chamber chamber plugged- Difficult-Barrel icol Chamber plugged- Difficult-Barrel icol Chamber chambe	4	Handgun safety device	7/2002		Commes	No	Ginner (teverver) Fairly Quick-Must pull device from barrel and chamber live round	Chamber and barrel plugged-can't be fired	Easy-Perhaps too easy. Child could pull out	Reusable	Yes 1	0 %	Optional	%
Freech block 512001 Scott Pistol only Slow Barrel tool chamber plugged- ant the fired required-Ejest eartridge required to remove ant the fired required-Ejest eartridge coulty lock coulty or squired to remove and the fired required-Ejest eartridge coulty or squired to remove and the fired required-Ejest eartridge coult be fired and being coulty or squired to remove and the fired required-Ejest eartridge coult being coulty as a squired-Ejest eartridge coulty as a squired	96	Breech block firearm safety	6/2002			Š.	Slow-Barrel tool required to remove	Chamber plugged- can't be fired	Difficult-Barrel tool required+Must eject Breech Member	Reusable	ž	No No		Š.
Security lock for 3/2000 Samuels Revolver No Siow-Barrel tool chamber plugged- and the fired required regiment degree of the control of the c	22	Breech block safety	5/2001			Slow	Slow-Barrel tool required to remove	Chamber plugged- can't be fired	Difficult-Barrel tool required+Eject cartridge	Reusable	S S	Yes No		% N
Quiek-release gun 9/1999 Ross Pistol only Slow-Barrel tool Chamber plugged- Difficult-Barrel tool lock required+Ejject Croft, & and to fired Croft, & and to fired Difficult-Barrel tool closed required-Hject carridge and to fired Croft, & and to fired Difficult-Barrel tool Pages of the proposition of the p	99	Security lock for	3/2000		lver	No	Slow-Barrel tool	Chamber plugged- can't be fired	Difficult-Barrel tool	Reusable	2 %	% N		ž
Fight security gun 12/1995 Briley, Both No Slow-Barrel tool lock Safety cartridge Shmeek Safety cartridge Safety cartridge Shmeek Safety cartridge Safety cartridge 9/1994 Shaart Both 7(1) Quick-Eject cartridge oylinder (revolver) Tangged firearm 12/1992 Honey, Better for No Slow-Barrel tool lock Spring actuated 4/1991 Horton Better for 7(2) Quick-Eject cartridge oylinder (revolver) Spring actuated 4/1991 Horton Better for 7(2) Quick-Eject cartridge Spring actuated 4/1991 Horton Better for 7(2) Quick-Eject cartridge oylinder (revolver) Safety lock for 10/1992 Mikus Revolver No Slow-Barrel tool required lock cartridge Spring actuated 4/1991 Horton Better for 7(2) Quick-Eject cartridge Spring actuated 4/1991 Horton Better for 7(2) Quick-Eject cartridge oylinder (revolver) Safety device for 9/1965 Giles Better for No Slow-Barrel tool safety cartridge safety cartridge owner from the fired required safety cartridge owner from Safety device for 9/1965 Giles Better for No Quick-Eject cartridge or Pulling trigger jams gun steiget of the fired required safety cartridge owner frowlers safety cartridge owner frowlers (revolver) Pulling trigger jams gun only Sow-Barrel tool safety device for 9/1965 Giles Better for No Slow-do pound force Chamber & barrel Difficult-Barrel tool safety device for 9/1965 Giles Better for No Quick-Rotate cylinder (revolver) Chamber Phugged-can't be fired and chamber plug actuated device cartridge owner of the fired cartridge owner of the fired and chamber plug cartridge cartridge owner of the fired and chamber plug cartridge owner of the fired cartridge owner	4	Quick-release gun	6/16		l only	Slow	Slow-Barrel tool	Chamber plugged-	Difficult-Barrel tool	Reusable	N _S	Yes No		ž
Safety cartridge 3/1995 Stuart Both ? (1) Quick-Eject cartridge oylinder (revolver) Safety cartridge 9/1994 Stuart Both ? (1) Quick-Eject cartridge oylinder (revolver) Flagged firearm 12/1992 Honey, Better for No Slow-Barrel tool required and better for 10/1991 Mikus Revolvers Spring sctuated 4/1991 Horton Better for ? (2) Quick-Eject cartridge cylinder (revolver) Handgun safety lock for 10/1991 Mikus Revolver No Slow-Barrel tool required cartridge soliting certain and soliting trigger jams gun Difficult-Barrel tool required safety lock for 10/1991 Mikus Revolver No Slow-Barrel tool safety cartridge safety cartridge safety cartridge safety cartridge safety cartridge oylinder (revolver) Handgun safety artridge Safety device for 9/1965 Giles Better for No Quick-Eject cartridge optimized plugged-cart be fired and chamber plugged safety device for 9/1965 Giles Better for No Quick-Rotate cylinder crevolvers implement for 3/1863 Bonzano No-For muzzle load thru muzzle required liasabling ordnance load eannon	4	High security gun lock	12/1995			Š	Slow-Barrel tool must be removed+	Chamber plugged- can't be fired	Difficult-Barrel tool must be removed+ Fiert contridor	Reusable	Yes 1	No No		Š.
Safety cartridge 9/1994 Stuart Both ?(1) Quick-Eject cartridge (pistol) or rotate (pistol	55	Safety cartridge	3/1995			7(1)	Quick-Eject cartridge (pistol) or rotate orlinder (revolver)	Pulling trigger jams gun	Difficult-Barrel tool required+Eject cartridge	N _o	ž	Yes No		Yes
Flagged firearm 12/1992 Honey, Better for No Slow-Barrel tool can't be fired Ruston Ruston Ruston Ruston Ruston Ruston Revolvers Spring actuated 4/1991 Horton Better for 7 (2) Quick-Eject cartridge Spring actuated 4/1991 Horton Better for 7 (2) Quick-Eject cartridge Safety cartridge 11/1988 Thurber Both No Slow-40 pound force Abarrel tool safety device Safety device for 9/1965 Giles Better for No Quick-Rotate cylinder revolver) Ruston Revolver Pulling trigger jams gun Pulling trigger jams gun Pulling trigger jams gun Pulling trigger jams gun Pulling trigger jams punged-can't be fired required and chamber plug actuated 4/1991 Horton Better for 7 (2) Quick-Eject cartridge Safety device Safety de	5	Safety cartridge	9/1994			7(1)	Quick-Eject cartridge (pistol) or rotate ovlinder (revolver)	Pulling trigger jams gun	Difficult-Barrel tool required+Eject cartridge	No No	ž	Yes No		Yes
Safety lock for 10/1991 Mikus Revolver No Slow-Barrel tool revolvers only revolver cylinder only revolvers safety cartridge safety device for 9/1965 Giles Better for No Quick-Rotate cylinder (revolver) Pulling trigger jams gun liftcult-Barrel tool safety device sur 9/1965 Giles Better for No Quick-Rotate cylinder revolver surplement for 3/1863 Bonzano No-For muzzle Not applicable Chamber plugged- required required required sabing ordnance loaded cannon safety loaded ca	4	Flagged firearm lock	12/1992	શ્ર		No O	Slow-Barrel tool required	Chamber plugged- can't be fired	Diffcult-Barrel tool required	Reusable	Yes	No No		°Z
Spring actuated 4/1991 Horton Better for ? (2) Quick-Eject cartridge safety cartridge safety cartridge revolver (pistod) or rotate cylinder (revolver) Handgun safety 11/1988 Tburber Both No Slow-40 pound force plugged-can't be fired and chamber plug (revolver) Implement for 3/1863 Bonzano No-For muzzle loaded cannon loaded cannon required transplants and chamber plugged- or required through a plugged safety cartridge loaded cannon loaded cannon revolver required re	22	Safety lock for revolvers	10/1991	,	lver	No No	Slow-Barrel tool required	Revolver cylinder locked-can't be fired	Difficult-Barrel tool required+Eject cartridge	Reusable	2 %	S 8	Compression No spring	ş
Handgun safety 11/1988 Thurber Both No Slow-40 pound force Chamber & barrel Difficult-Remove lock device Safety device or 9/1965 Giles Better for No Quick-Rotate cylinder Pulling trigger jams Difficult-Barrel tool guns Implement for 3/1863 Bonzano No-For muzzle Not applicable Chamber plugged-can't be fired and chamber plug and chamber plug specification or revolver required Eject cartridge Implement for 3/1863 Bonzano No-For muzzle Not applicable Chamber plugged- Difficult-Barrel tool disabling ordnance loaded cannon loaded cannon required cannon required thru muzzle required	4	Spring actuated safety cartridge	4/1991		r for ver	7(2)	Quick-Eject cartridge (pistol) or rotate cylinder (revolver)	Pulling trigger jams gun	Difficult-Barrel tool required+Eject cartridge	Reusable	ž	8 8 8 8 8	like ssion	Š
Safety device for 9/1965 Criles Better for No Quick-rotate cylinder Puling trigger jams Difficult-Barret tool guns revolver required+Eject cartridge Implement for 3/1863 Bonzano No-For muzzle Not applicable Chamber plugged- Difficult-Barret tool disabling ordnance loaded cannon	4 ;	Handgun safety device	11/1988	5	·	ž ;	Slow-40 pound force +Remove cartridge	Chamber & barrel plugged-can't be fired	Difficult-Remove lock and chamber plug	Reusable			°Z °	S Z
	9	Safety device for guns fimplement for disabling ordnance	9/1965 3/1863	ou	ZZni	o e e	Quick-kotate cyimaer (revolver) Not applicable	Puling trigger jams revolver Chamber plugged- load thru muzzle	Difficult-framer room required+Eject cartridge Difficult-Barrel tool required	Keusable Reusable	2 2 2 2	No Spri	npression ng	o o

<u>ଚ୍ଚତ</u>

Projectile (slug) press fit force may not be sufficient to prevent user from loæding new round of live ammunition.
Unwound spring may be of insuuficient length to prevent user from cycling in new round of live ammunition.
Blunt bullet nose shape required for diameter expansion press fit will not allow chambering of second safety cartridge from magazine on certain automatic pistols.